

INTERNATIONAL SEARCH REPORT

International Application No
/IB2004/050329

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H03F1/02 H03F3/217 H03F1/32 H03F1/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H03F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | US 5 513 094 A (STANLEY GERALD R) 30 April 1996 (1996-04-30) column 2, line 30 - column 6, line 30 ----- | 1-3,8-13 |
| A | US 4 115 739 A (HIROTA YUTAKA ET AL) 19 September 1978 (1978-09-19) column 6, lines 35-49; figure 8 ----- | 2,3,8,9, 11,13 |
| A | US 5 420 536 A (BRIFFA MARK A ET AL) 30 May 1995 (1995-05-30) column 10, lines 43-56; figure 14 column 11, lines 15-26 ----- -/-- | 1-13 |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

18 June 2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| A | <p>ZHEREN LAI ET AL: "A low distortion switching audio power amplifier"</p> <p>POWER ELECTRONICS SPECIALISTS CONFERENCE, 1995. PESC '95 RECORD., 26TH ANNUAL IEEE ATLANTA, GA, USA 18-22 JUNE 1995, NEW YORK, NY, USA, IEEE, US, 18 June 1995 (1995-06-18), pages 174-180, XP010150555</p> <p>ISBN: 0-7803-2730-6</p> <p>page 176, left-hand column, line 33 - page 178, right-hand column, line 22; figures 3,5</p> | 1-13 |

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International Application No

/IB2004/050329

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|----------------------------|---------------------|
| US 5513094 | A | 30-04-1996 | AU 683308 B2 | 06-11-1997 |
| | | | AU 7876794 A | 19-06-1995 |
| | | | BR 9408193 A | 26-08-1997 |
| | | | CA 2175800 A1 | 08-06-1995 |
| | | | CN 1136370 A ,B | 20-11-1996 |
| | | | DE 69409968 D1 | 04-06-1998 |
| | | | DE 69409968 T2 | 29-10-1998 |
| | | | DK 732004 T3 | 15-02-1999 |
| | | | EP 0732004 A1 | 18-09-1996 |
| | | | ES 2118442 T3 | 16-09-1998 |
| | | | FI 962262 A | 15-07-1996 |
| | | | JP 3486691 B2 | 13-01-2004 |
| | | | JP 9505963 T | 10-06-1997 |
| | | | NO 962190 A | 02-07-1996 |
| | | | RU 2155439 C2 | 27-08-2000 |
| | | | WO 9515612 A1 | 08-06-1995 |
| US 4115739 | A | 19-09-1978 | JP 1115268 C | 29-09-1982 |
| | | | JP 52132660 A | 07-11-1977 |
| | | | JP 57006805 B | 06-02-1982 |
| | | | JP 53053946 A | 16-05-1978 |
| | | | JP 56040521 B | 21-09-1981 |
| | | | CA 1094652 A1 | 27-01-1981 |
| | | | DE 2718792 A1 | 03-11-1977 |
| | | | FR 2349997 A1 | 25-11-1977 |
| | | | GB 1576739 A | 15-10-1980 |
| | | | NL 7704516 A ,C | 01-11-1977 |
| US 5420536 | A | 30-05-1995 | AU 5781794 A | 22-09-1994 |